XIRIUM
DIGITAL WIRELESS AUDIO NETWORK

User Manual

DWA
DIGITAL WIRELESS AUDIO

NEUTRIK®

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A About this document

This document describes the safe use of the multi-channel radio system XIRIUM (hereinafter referred to as **„XIRIUM network“**), consisting of the TRX base station and the TX and RX Portable units (hereinafter referred to as the **„XIRIUM devices“**) and other accessories, such as antennas, mounts, power supply units and cables.

Terms

Name	Description
XIRIUM network	All components: TRX base station, TX Portable unit, RX Portable unit, cables, connectors, antennas, mounts, power supplies
XIRIUM devices	TRX base station, TX Portable unit, RX Portable unit
Audio source	All the equipment that transmits audio signals to the XIRIUM network, e.g. instruments, microphones, tablets, MP3 players (guitars, etc.)
Output devices	All devices that receive audio signals from the XIRIUM network, such as speakers, MP3 players, audio system (amplifier, etc.)
Control devices	All devices that process audio signals from XIRIUM network, such as mixers.
Peripheral devices	All devices that can be connected to the XIRIUM network, e.g. audio equipment (transmitters), output devices (receivers) , ECUs, etc.

Symbols on the equipment/ packaging

Symbol	Explanation
CE ⓘ	CE conformity mark. Product has been manufactured in accordance with the applicable standards.
	Do not dispose of devices as household waste.
	Warning signs. Read the instructions.

Symbols in the Documentation

Symbol	Symbols in the Documentation
☑	Prerequisite: These conditions must be met before the statements following can be executed.
▶	Instructions: You have to do something.
•	Result: Result of an executed statement.
ⓘ	Hints and tips to ensure safe use of the equipment and accessories. Follow these instructions.
	Warning Symbol: Indicates danger. Neglect could result in personal injury.
CAUTION!	CAUTION! Word of warning: Indicates danger. Neglect could result in property damage.

Safety

- ▶ Read the User Manual carefully for information on safe use of XIRIUM devices and all accessories.
- ▶ Always keep this instruction manual handy with the XIRIUM devices for future reference.
- ▶ Read and follow the instructions for use pertaining to the peripheral devices.

Proper use

- ▶ Use the XIRIUM equipment only as described in this manual.
- ▶ Do not use accessories that are not expressly recommended for XIRIUM devices.

The XIRIUM devices are not intended for outdoor use.

- ▶ Only use XIRIUM devices indoors.
- ▶ Protect the XIRIUM devices from shock and from falling from shelves, tables or furniture.

Material damage due to improper operation and ambient conditions!

- ▶ Protect the XIRIUM equipment against dirt, dust, moisture, humidity, heat and strong sunlight.
- ▶ Make sure that the XIRIUM devices have sufficient distance from other objects, especially those that are likely to become very warm. In order to avoid potential over-heating do not cover the case of TRX base station.

Risk of injury and material damage due to improper repair! The XIRIUM devices do not contain any parts that can be repaired.

- Do not open the housing of the XIRIUM devices, or attempt to replace any parts yourself. Unauthorized opening or repair can cause severe damage to equipment and/or injury to the operator.
- Allow the repair of the XIRIUM devices only by an authorized dealer.

Batteries/Rechargeable Batteries

- Use only batteries/rechargeable batteries to operate the TX/RX Portable units with the same technical values.
- Do not mix standard alkaline batteries with rechargeable batteries in the same unit.
- Do not use batteries/rechargeable batteries having different charge states.

Electrical connection

Risk of electric shock!

- Connect the XIRIUM devices to only properly installed electrical outlets.
- Do not touch the XIRIUM devices and connections with wet or damp hands.
- Make sure that the label on the XIRIUM devices and power supplies mains voltage and frequency match the values of the mains supply-indices.
- Use only the power devices supplied with the XIRIUM devices for connection to an electrical outlet. Do not make any modifications to the power supply.
- Before switching on the XIRIUM devices ensure that the power adapters or the battery/ batteries have no external damage, fractures or cracks. Use only an undamaged power supply unit for connection to the power grid.
- If you do not operate the XIRIUM equipment for a long time, turn off the power and unplug the power cord from the outlet.
- During thunderstorms or risk of voltage fluctuations in the power grid: Turn off the XIRIUM devices and disconnect the power plug from the outlet.
- Make sure that the power cables are not kinked in operation, overhang any sharp edges and do not touch any warm or hot surfaces.
- Do not use any of the XIRIUM devices if interference or damage to the power supply occurs to the individual devices, displays, controls or accessory parts.

Instructions to follow during operation

- Make sure that the defined technical environmental conditions for the XIRIUM devices are observed in operation at all times.
- Do not use the XIRIUM equipment if it does not work properly, has been dropped, damaged or has become wet or parts of it has been submerged in water.
- Turn off the XIRIUM devices immediately and disconnect from the power supply when faults occur during operation.
- XIRIUM devices must not be operated in areas where combustible or explosive materials, gases or vapors occur.

B System components

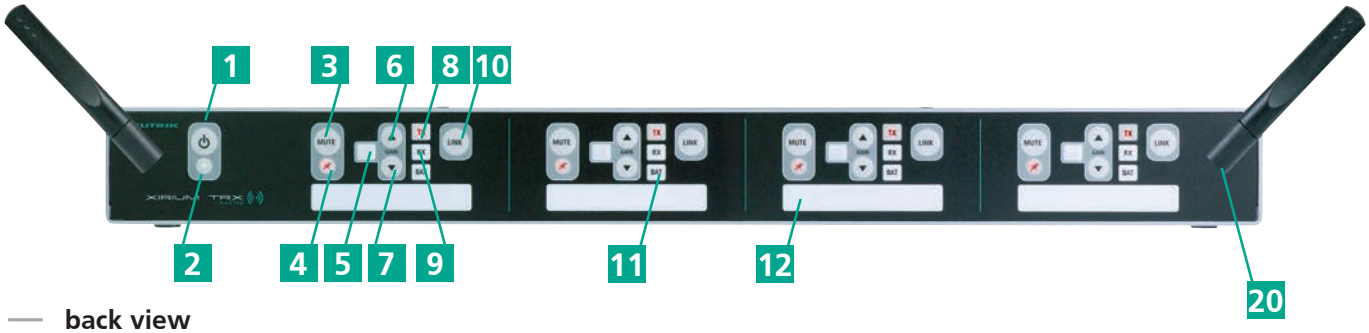
Scope of delivery and accessories

No.	XIRIUM device / accessories
1	**Base station TRX** TRX
2	**TX Portable unit** TX
3	**RX Portable unit** RX
4	**TX-T Touring sending unit** TX-T
5	**RX-T Touring reception unit** RX-T
Accessories	
6	**Rod antennas** (2 pcs.)
7	**Rack mount** (brackets and screws)
8	**Quick Start Guide**
9	**12V power supply with XLR connector**
10	**5V power supply with mini-USB cable** (for Portable transmitting and receiving units TX, RX)
11	**5V power supply with mini-XLR connector** (for Portable touring transmit and receiving units TX-T, RX-T)
12	**Master/Slave link cable**
13	**Tripod mounts for Portable unit**
14	**Antenna**
15	**Antenna cable**
16	**Aluminum case**
	XIRIUM user Configurator/Setup software

Controls

TRX base station

front view

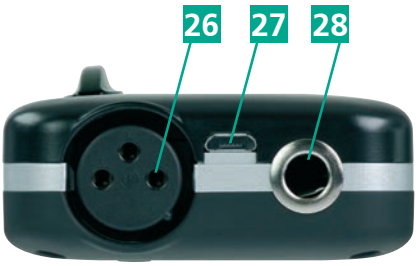


back view

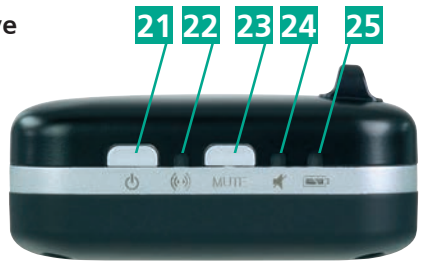
No.	Description	Note
1	**On/Off button**	TRX base station on/off button
2	**Power LED**	Indicator is illuminated when the TRX base station is switched on
3	**MUTE button**	In - Output silent switch
4	**MUTE LED**	Indicator illuminated when **MUTE button** is in use and flashes red when switching on the TRX base station
5	**GAIN LED**	Display of signal amplification to increase
6	**GAIN-up button**	Amplification increase (in 8-dB steps)
7	**GAIN-down button**	Amplification reduction (in 8-dB steps)
8	**TX-link LED**	Indicator lights up when connected toTX Portable unit
9	**RX-link LED**	Indicator lights up when connected to RX Portable unit
10	**LINK button**	Start connection process Short press: Displays connected Portable units
11	**BAT-LED**	Displays charge status of the battery/batteries in the connected Portable unit
12	**Label field**	Data field
13	**Link button**	Connects adjacent audio channels (switch is on ☐: connected with adjacent audio channel)
14	**XLR-OUT**	XLR output for peripheral equipment
15	**XLR IN**	Combo input (XLR and TRS) from the peripheral device
16	**Reset button**	ResetsTRX base station to factory settings
17	**RJ45 connection**	Connection for computer to operate with user software
18	**M/S terminal connection**	Connection for master/slave operation (2 TRX base stations)
19	**Power supply connection**	Connection for 12V power supply
20	**Antenna connection**	SMA connector for antennas (with mounted rod antenna)

TX/RX Portable units

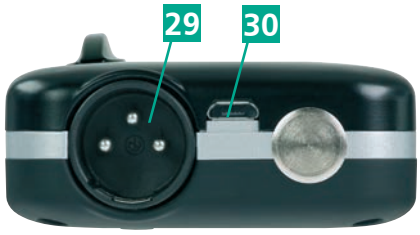
— TX below



— TX/RX, above



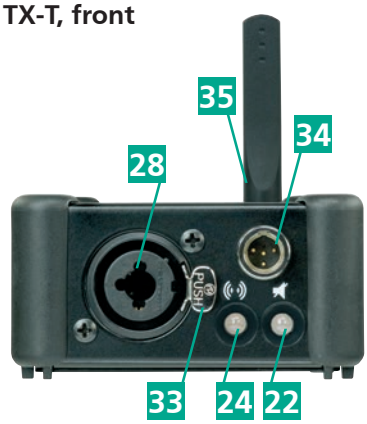
— RX below



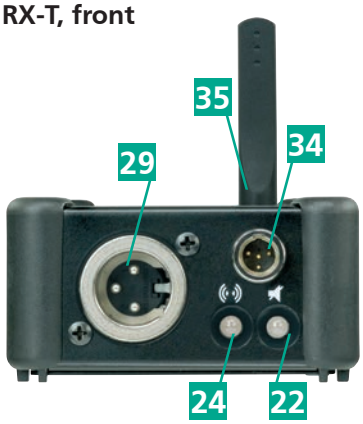
— TX/RX, rear

Touring TX-T/RX-T Portable units

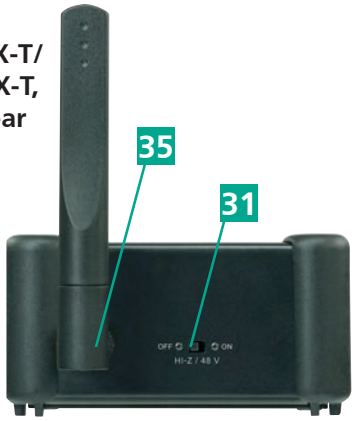
— TX-T, front



— RX-T, front



— TX-T/ RX-T, rear



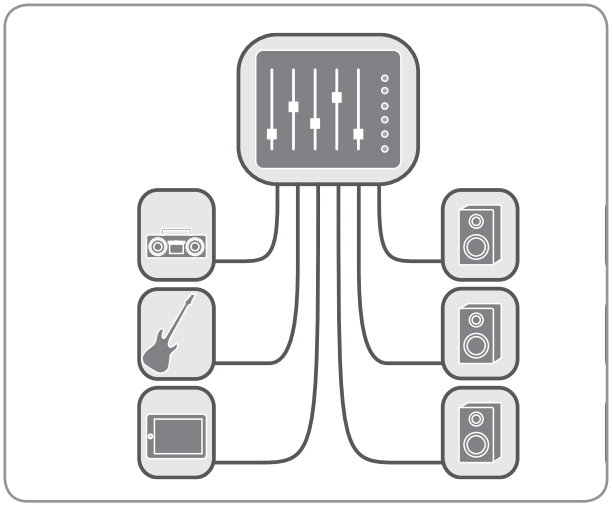
No.	Description	Note
21	**On/Off button**	Portable unit on/off button: short press starts connection process: Connected Portable units are displayed
22	**Link LED**	Displays connection status
23	**MUTE button**	In - Output silent switch
24	**MUTE LED**	Indicator illuminated when MUTE button is in use
25	**Battery-LED**	Displays charge status of the batter/batteries
26	**XLR IN**	XLR input from the peripheral device (COMBO TX-T)
27	**Mini-USB connection**	Connection for 5V power supply via mini USB
28	**Socket**	1/4“ TRS input for peripheral device
29	**XLR-OUT**	XLR output to the peripheral device
30	**Mini-USB port connector**	Connection for 5V power supply via mini-USB
31	**Input signal switch**	Between phantom/HI-Z and line-in switch
32	**Battery compartment**	Compartment for 4 batteries, Type AA
33	**XLR release**	Releases XLR connector
34	**Mini-XLR connector**	Connection for 5V power supply via mini XLR
35	**Antenna connection**	SMA connector for antenna (with mounted rod antenna)

C Functions

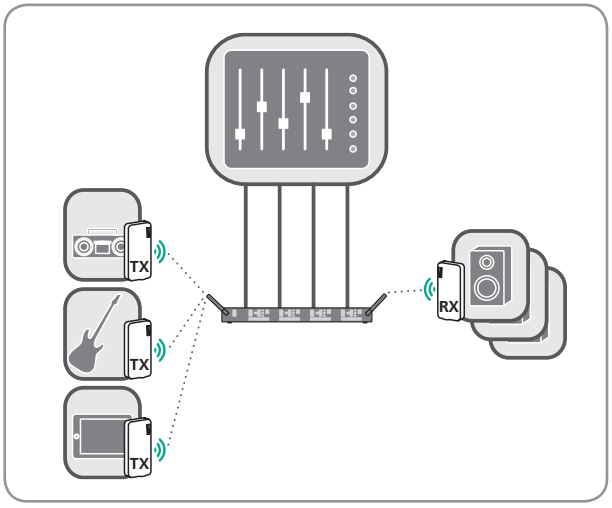
The XIRIUM network allows for the replacement of conventional cable connections between all types of audio devices and control and output devices (hereinafter called the „**peripherals**“) by a convenient wireless connection. The XIRIUM network transmits the audio signals without any loss on multiple audio channels on the 5 GHz band between the components:

- Audio sources: Input devices, e.g. musical instruments (guitars, keyboards) and microphones
  Audio devices, e.g. hi-fi and stereo systems, tablet PCs, MP3 players
- Output devices: Receivers, e.g. speakers, headphones, audio amplifiers
- Control devices, e.g. mixers

Conventionally with cables



With XIRIUM network



Connect Peripherals

Connect the peripheral devices via the Portable units with the TRX base station to transmit or receive audio signals.

- The TX Portable unit sends audio signals from a connected audio source (sender) to the TRX base station.
- The RX Portable unit receives audio signals from the base station TRX and passes them on to a connected output device (receiver).

You can also connect the TRX peripherals directly to the base station with an XLR cable, without the use of the TX/RX Portable units.

Configuration of the audio channels

You can use each audio channel at the base station TRX as either an input channel (connected with TX Portable unit) or an output channel (connected with RX Portable unit).

The combination of input channels with output channels specifies the path of the audio signal from the audio source to the output device.
To send a combined audio signal from multiple audio sources (e.g. a microphone and an electric guitar) to a single output device (e.g. a speaker), you need a mixer that is connected to the TRX base station with cables or via Portable units.

Broadcasting

In addition, you can associate up to 3 RX Remote units to one TRX output channel. This means that you can send the same audio signal to, for example, 3 loudspeakers or 2 loudspeakers and 1 mixer.

Muting of audio signals

Each channel of the TRX base station and each TX/RX Portable unit can be set individually on MUTE so that the audio signal is muted.

D Installation and assembly

- Unpack all parts of the XIRIUM devices. Keep the original packaging for shipping or storage.
- Check the contents of the package for visible transport damage.
- Check whether the items delivered match the details on the delivery note.
- In case of damage to the packaging or to the delivered parts, do not power up or operate the XIRIUM devices. Consult your dealer or contact Neutrik-service.

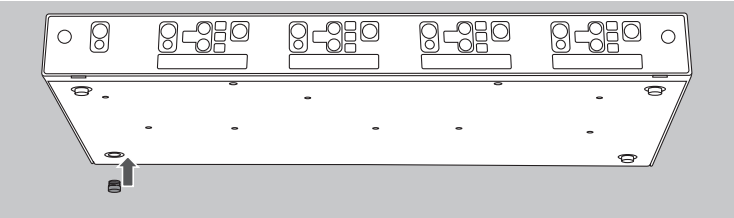
Rack-mounted TRX base station set up

- If you use the TRX base station in a rack, please do not mount the supplied rubber feet.
- Make sure that the rack is suitable for mounting the base station TRX. Please observe the instructions of the rack manufacturer.
- Attach the rack mounts to the TRX base station.
- Push the TRX base station into the rack.
- Assemble the rack mounts in a suitable mounting position in the rack.

TRX base station set up

Location, clearances, surface

- Install the supplied rubber feet to the bottom of the TRX base station.
  (▶ Assembly Instruction BDA 376).



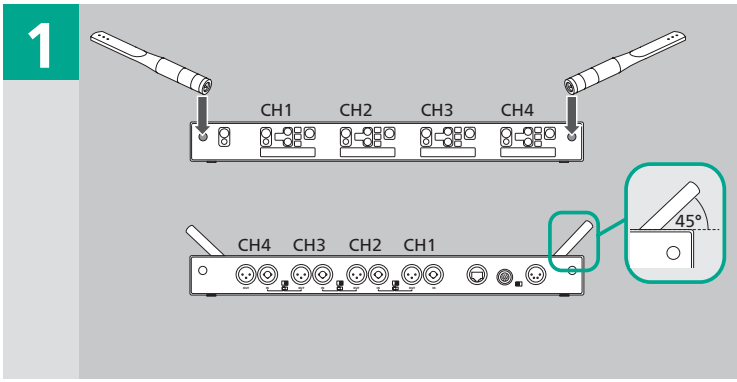
- Place the TRX base station on a stable, flat, non-slip surface.
- Make sure that the TRX base station has sufficient clearance to other objects, and that adequate ventilation is provided.

Attaching the brackets for Portable units

- Make sure that the tube diameter of the stand provides a non-slip, secure attachment (Inner diameter of the mounts: 20 or 35 mm).
- Insert the Portable units in the brackets.
- Attach the brackets for the Portable units on the microphone or speaker stand.

Installation of the TRX base station antennas

- Screw the two whip antennas into the **antenna connection.**
  - Alternatively, you can also connect an antenna cable to a remote antenna.
- Align the antennas at a 45 ° angle.



The use of TX-T/RX-T Touring Portable units

- Screw the two whip antennas into the **antenna connection.**
  - Alternatively, you can also connect an antenna cable to a remote antenna.

E Commissioning and configuration

TRX base station set up

Connect the TX channel and the RX channel to the TRX base station

This combination of audio channels is made with either the **Link Button** or an XLR cable to the XLR connectors.

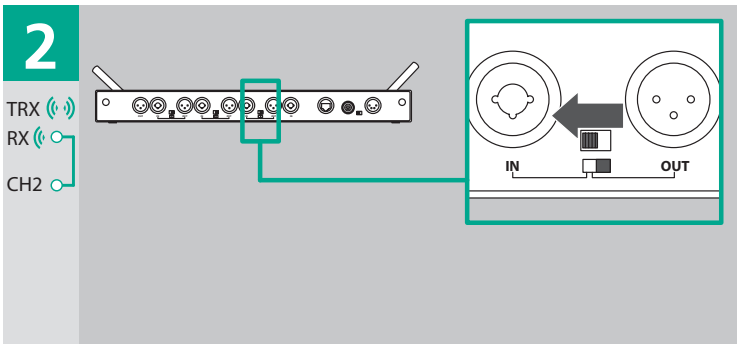
- Using the **Link Button**, you can only connect directly adjacent audio channels (for example, channel 1 with channel 2). The lower channel is the TX channel, the higher channel is the RX channel.
- With an XLR cable, you can also connect audio channels that are not directly adjacent to each other (e.g. channel 1 with channel 3, or channel 4 with channel 1).

Connection by Link Button

▶ Push the **link button** between two adjacent channels (e.g. channel 1 and channel 2) over to the left ☐.
  - Both channels are connected.

Connection by XLR Cable

▶ Connect **XLR-OUT** and **XLR-IN** to two channels (e.g. channel 1 and channel 3) with an XLR cable.
  - Both channels are connected.



Switch on the TRX base station

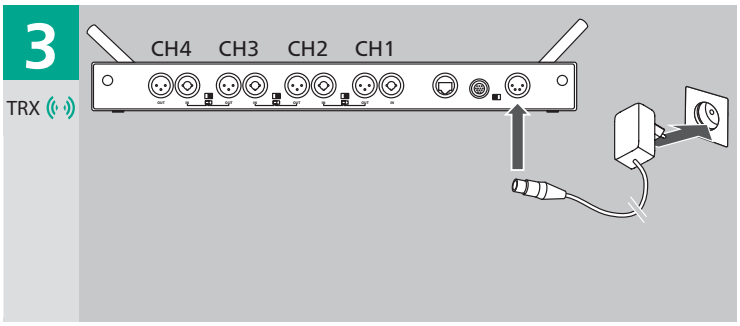
▶ Make sure that the power outlet is within range of the base station TRX and is easily accessible at all times.

CAUTION! Damage to the equipment, accessories and components if connected to incorrect connection values!

▶ Make sure that the power rating of the socket (i.e. voltage, current, frequency) is suitable for the TRX base station (see „Technical data“).

▶ Insert the appliance plug into the 12-V **power supply**.

▶ Insert the power plug of the power adapter into a power outlet.

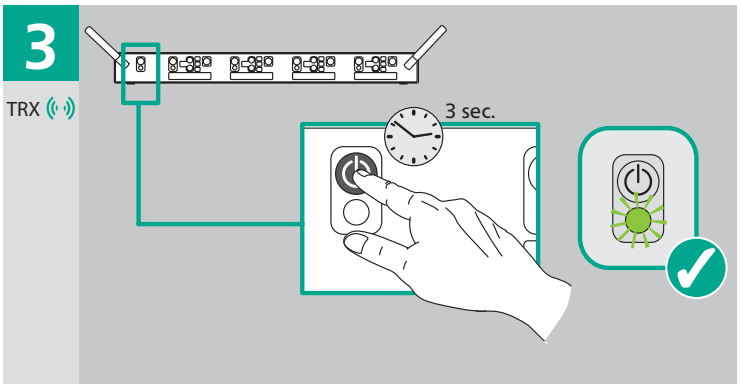


Once the TRX base station is powered, it will turn on automatically. If you have turned off the TRX base station since the last use of the **On/Off button**, you will need to turn it on again manually.

To turn on the TRX base station manually

▶ Press the **On/Off button** for 3 seconds.
  - The **Power LED** light is green.
    All **MUTE LEDs** flash red.

▶ If all **MUTE LEDs** light up: Release the **On/Off button**.
  - All **MUTE LEDs** go out. The unit is ready for operation.



Overwrite the existing configuration

When you turn on the TRX base station, the last used configuration of audio channels and associated TX/RX Portable units is automatically active.
The last used configuration is overwritten automatically when you configure the audio channels.
If necessary, you can delete the last used configuration with a reset (▶„Device Reset“ on page 26) before you set up a new configuration.

Set up the TX Portable units

Using TX-T Touring Portable units

If the following procedures differ when using the TX-T Touring Portable units, these are listed separately.

Adjust the inputs of the TX Portable unit

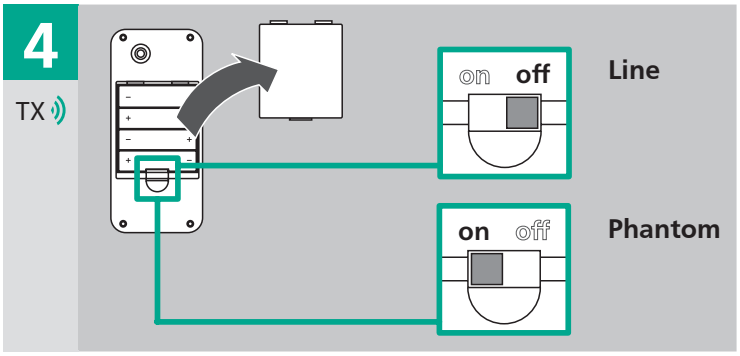
By default both inputs of the Portable units are interpreted as Line-In.
If required for the selected audio source (for example, electric guitar or condenser microphone), you can put the inputs on phantom power/Hi-Z:

- Input **XLR IN**: 48 V phantom power
- Input **jack**: HI-Z

▶ Remove the cover of the battery compartment.
▶ Slide the **input switch** to the **off** position.
  - The inputs can be connected with Line-In.

– or –

▶ Slide the **input switch** to **on**.
  - The inputs can be connected with phantom power and Hi-Z.
  - The **Mute LED** on the top of the TX Portable unit is lit green.



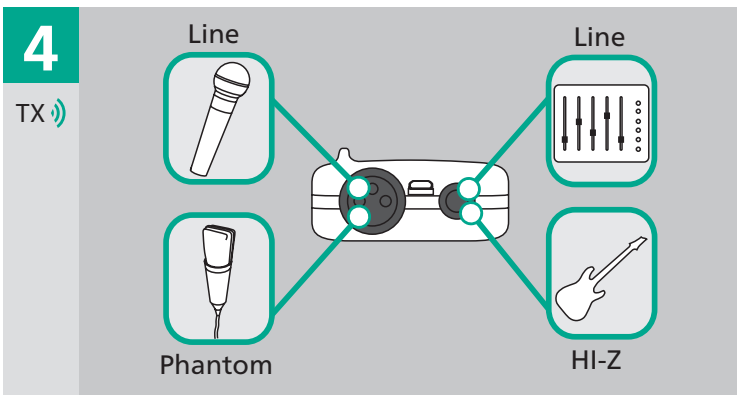
When using a TX-T Touring mobile unit:

▶ Slide the **input switch** on the rear of the mobile unit to **off** (for Line) or **on** (for Phantom Power/Hi-Z) respectively.

Connect the audio source to TX Portable unit

CAUTION! Damage to the equipment, accessories and connected audio source due to incorrect connection values!
▶ Make sure that the inputs are set correctly on the TX Portable unit (Line-In or Phantom Power/Hi-Z).

▶ Connect the audio cable to the audio source.
▶ Insert the plug of the audio cable to the TX Portable unit **XLR-IN** or **jack**.



TX Portable units with power supply

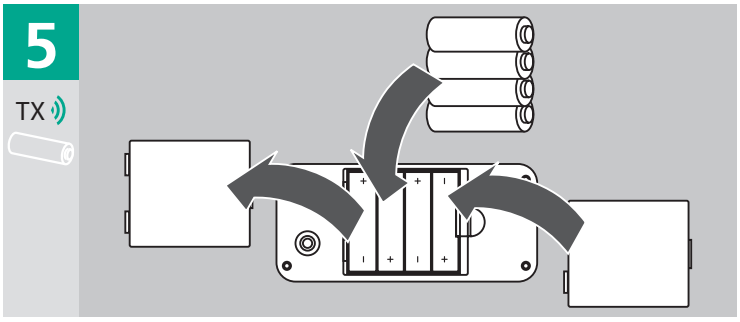
Portable units using batteries/rechargeable batteries

Recommendation:
▶ Use rechargeable batteries.

- ▶ Use only fully charged batteries.
- ▶ Do not combine alkaline batteries and rechargeable batteries.
- ▶ If you are using batteries ensure that all batteries are fully charged.

Batteries/Battery insertion or replacement

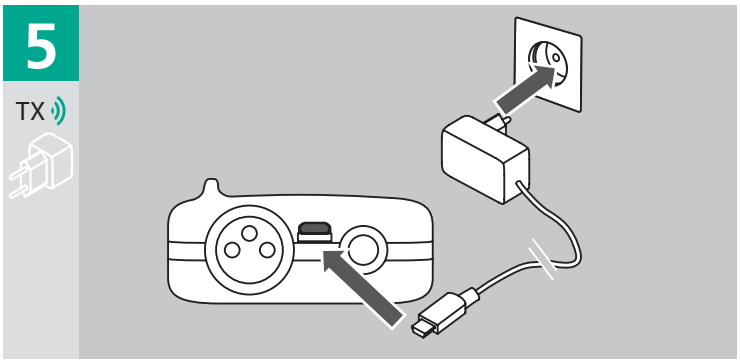
- ▶ Remove the cover of the battery compartment.
- ▶ Remove the depleted batteries/rechargeable batteries.
- ▶ Insert the batteries/rechargeable batteries type AA (LR6, AA). When inserting ensure correct polarity.
- ▶ Close the cover of the battery compartment.



Connect Portable units to mains power supply

You can also connect the Portable units with the power supply unit to the mains. When operating with AC adapter you can leave the batteries/rechargeable batteries in the battery compartment. When connecting the power supply unit, the Portable unit is switched on automatically.

- ▶ Insert the mini-USB plug and mini XLR plug into the headphone connector of the Portable unit.
- ▶ Insert the mains plug into a mains socket.



Check the charge state of the TX Portable units

LEDs indicate the charging status of the batteries/rechargeable batteries in the Portable units:

- **BAT LED** on the TRX base station
- **Battery-LED** on the Portable unit

- ▶ Note the following:
  - If there are several RX Portable units associated with an RX channel (**Broadcasting**), the **BAT LED** indicates the charge status of the weakest Portable unit.
  - In the **XIRIUM Configurator** software the charge states of all Portable units are displayed.

Display	Explanation
Green	State of charge OK
Orange	Batteries should soon be changed, rechargeable batteries should be charged soon.
Red	Battery/Battery discharged ▶ Change batteries, charge the batteries.

Connect the TRX base station to TX Portable units

Connect the Portable units one after another to the TRX base station. For each Portable unit, you determine which audio channel at the TRX base station is used for the connection. You specify the signal paths by connecting the audio channels with each other at the TRX base station.

The following LEDs indicate the connection status when connecting to:

- **TX/RX-Link-LEDs** on the TRX base station
- **Link-LED** on the Portable unit

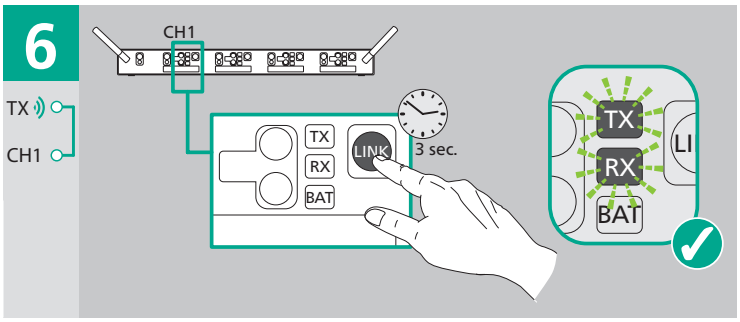
Display	Explanation
Red	No connection
Orange	Connecting
Green	Connection established

Connecting the TX Portable unit

Start connection to base station TRX

▶ Press the **LINK button** on the TRX base station in a free channel panel (example shown right = **Channel 1**) for about 3 seconds.
- **TX/RX-Link-LED** and **BAT-LED** flash on the TRX base station.

▶ Recommendation: Switch off the Portable unit after successfully connecting to conserve the battery/batteries.

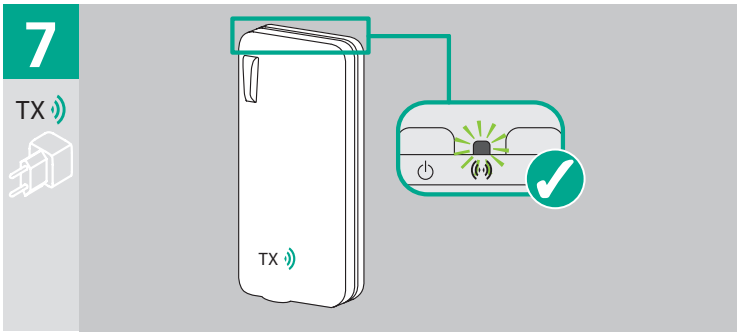


Connect the TX Portable unit

Connection Error to the Portable unit - too close!
▶ Do not hold the Portable unit too close to the antenna: keep a distance of at least 30 cm.

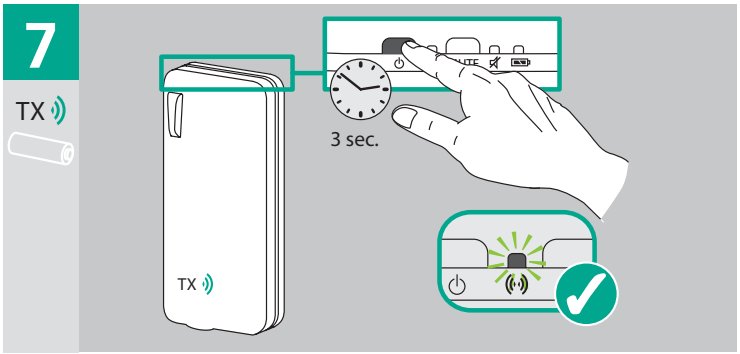
If using the AC adapter for power supply

When using the AC adapter power supply unit, the Portable unit is already turned on.
- The Portable unit will connect to the TRX base station.
  - **Link-LED** (on the Portable unit) and **TX-Link-LED** (on the TRX base) light in the sequence: Red, Orange, Green.
  - Green = Connection is established.



If powered with batteries

▶ Press the **On/Off button** on the Portable unit for about 3 seconds.
- The Portable unit will connect to the base station TRX.
  - **TX/RX-Link-LED** and **BAT-LED** flash on the TRX base station.
  - **Link-LED** (on the Portable unit) and **TX-Link-LED** (on the TRX base station) light in the sequence: Red, Orange, Green.
  - Green = connection is established.



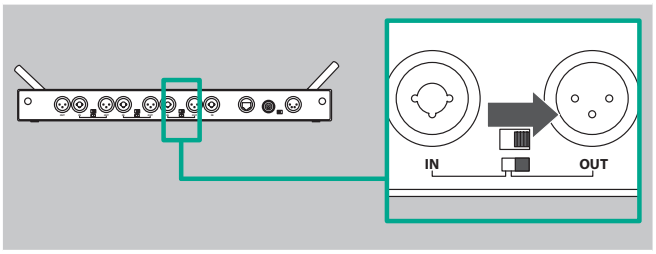
Identify the connected Portable units

▶ Press briefly the **LINK button** on an audio channel on the TRX base station.
- The **Link-LEDs** associated with this audio channel connection flash on the Portable unit.

Connect an audio source/output device directly to the TRX base station

If desired, you can add audio sources and output devices, and especially control devices (such as a mixer) and connect them directly to the TRX base station.

Link failure due to incorrect connection of audio channels!
- ▶ When setting up the direct connection of audio sources, ensure that the **Link button** on the back of the TRX base station is slid to the right ■ as shown.



— Audio source connected directly to the TRX base station

- ▶ Connect a suitable audio cable to the audio source.
- ▶ Insert the plug of the audio cable into the TRX base station in the **XLR-IN** of the RX channel.

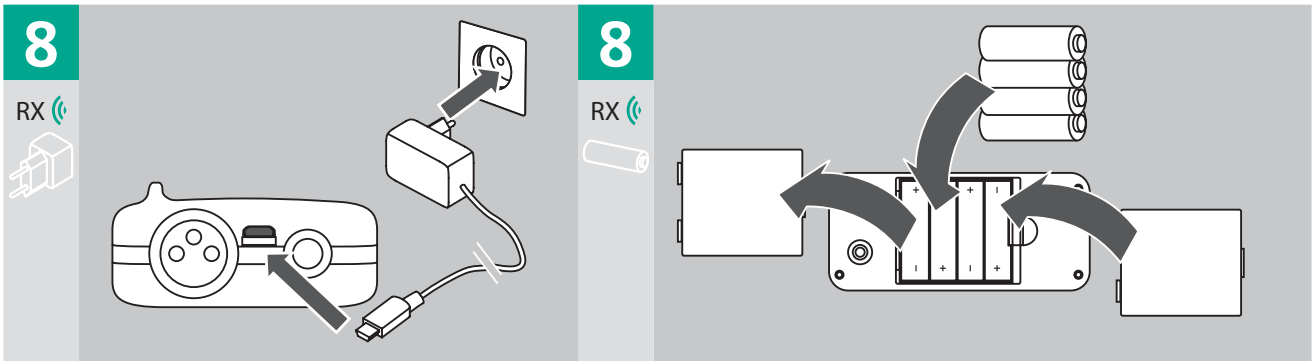
— Control unit/output device connected directly to the TRX base station

- ▶ Connect a suitable audio cable to the control or output device.
- ▶ Insert the plug of the audio cable into the TRX base station in the **XLR-OUT** of the TX channel.

Connect the TRX base station and RX Portable units

Supply the RX Portable units with power

- ▶ Repeat the same procedure as for the power supply to the TX Portable units (▶ „TX Portable units with power supply“ on page 12).



— Check the charge status of the RX Portable units

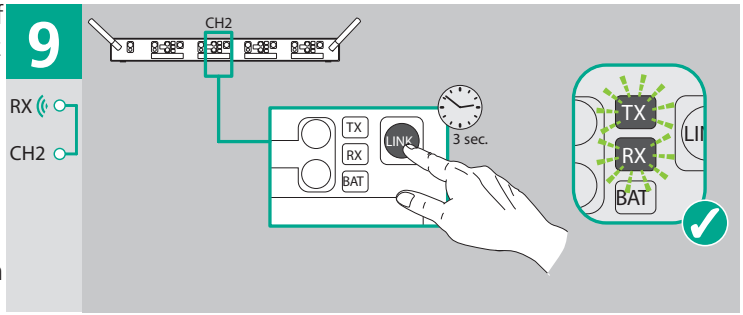
The charge status is displayed in the same manner as for TX Portable units.

Connect an RX Portable unit

— To start connection to the TRX base station

In this example, **Channel 1** is already connected to the TX Portable unit. Therefore, in order to connect the RX Portable unit, the next free channel, i.e. **Channel 2**, is used.

- ▶ Make sure that the **Link button** on the back of the TRX base station between the two adjacent channels (here: Channel 1 and Channel 2) is in the connecting position ☐.
  - Both channels are connected.
- ▶ Press the the **LINK button** on a free channel panel on the TRX base station (here: **Channel 2**), for about 3 seconds.
  - **The TX/RX Link-LED** and **BAT-LED** flash on the TRX base station.

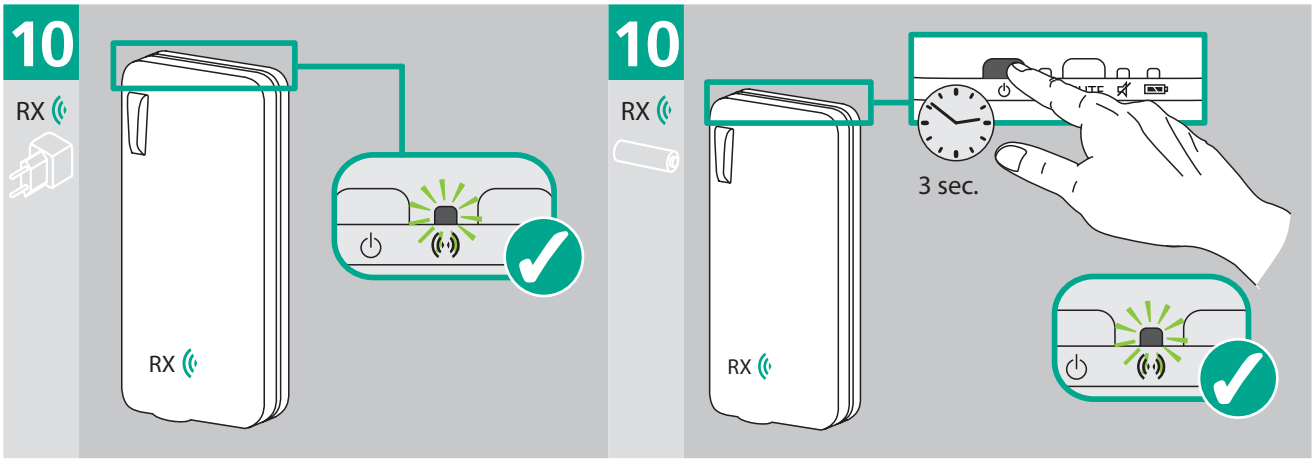


— Connect an RX Portable unit

> Connection Error to the Portable unit - too close!
> ▶ Portable unit held too close to the antenna: keep a distance of at least 30 cm

▶ Repeat the process of connecting TX Portable units. (▶ „To connect the TX Portable unit“ page 13)

If powered with power supplies **If powered with batteries/rechargeable batteries**



— Identify the connected Portable units

▶ Press the **LINK button** on an audio channel on the TRX base station.
  • The **Link-LEDs** associated with this audio channel connection flash on the Portable unit.

Connect more Portable units

For each additional Portable unit, repeat the process for connecting Portable units.
With a TX channel on the TRX base station, you can connect only one TX Portable unit.

- For each additional TX Portable unit you want to connect with the TRX base station, you must provide an additional TX channel on the TRX base station.
- An existing connection can be simply replaced by a new one, allowing you to perform the process of connecting again on the audio channel that is already occupied with another Portable unit.

— Broadcasting

With an RX channel on the TRX base station, you can connect up to 3 RX Portable units.

> If you want to connect a 4th RX Portable unit to a TRX base station already fully occupied with 3 RX Portable unit channels, all existing links will be deleted.

Connect more TX Portable units

▶ Repeat the procedure for joining TRX base station and TX Portable units (▶ Connecting „TRX base station and TX Portable units“, page 13).
▶ Use an available input channel at the TRX base station which is not yet connected to a TX Portable unit.

Connect more RX Portable units

▶ Repeat the procedure for joining TRX base station and RX Portable units (▶ Connecting „TRX base station and RX Portable units“, page 14).
▶ Use an available output channel at the TRX base station which is not yet connected to a RX Portable unit.
– or –
▶ If **Broadcasting**: Use an already occupied output channel.

Identifying the connected Portable units

▶ Press the **LINK button** on an audio channel of the TRX base station.
  • The **Link-LEDs** associated with this Portable unit's audio channel flash.

Connect the output device to RX Portable unit

To avoid signal peaks, we recommend to activate the muting function on the XIRIUM devices before connecting the peripherals.

Caution!
Hearing damage!
Damage to the output device due to high volume setting!
- ▶ Adjust the volume control of the audio source to zero before connecting to the Portable unit.
- ▶ Press the **MUTE button** on the TRX base station or the **Mute button** on the Portable unit.

- ▶ Connecting the audio cable to the receiver.
- ▶ Insert the plug of the audio cable to the RX Portable unit in **XLR-OUT**.

Connecting an additional TRX base station

Connecting TRX base stations in a master/slave operation

- ▶ Follow the installation and assembly instructions for TRX base station (▶ „Setup and Installation“, page 9).
- ▶ Insert the M/S-Link cable to both TRX base stations in the **M/S connection**.
  - The TRX base stations are synchronized.
- ▶ Perform the usual configuration and connection of audio channels on both TRX base stations.
- ▶ Make sure that the audio channels with the same number on both devices have the same function (TX or RX channel).

F Operation

If you have configured the operating system and have connected the peripherals, the TRX base station stores this current configuration.

Switch the system on

☑ Placed and secured the TRX base station
☑ TRX base station is receiving power
☑ Audio channels configured
☑ Portable devices connected
☑ Peripherals connected

▶ Insert the plug of the AC adapter into a power outlet.
▶ Insert the device plug into the 12-V **power supply**.

Once the TRX base station is powered, it automatically turns on. If you have turned the TRX base station off since the last use of the **on/off button**, you need to turn it on manually

– or –

▶ Press the **On/Off button** for 3 seconds.
  • The **Power-LED** is green. All **MUTE-LEDs** flash red.
▶ If all **MUTE-LEDs** light up: Release the On/Off button.
  • All **MUTE-LEDs** go out. The unit is ready for operation.

Use the System

Adjusting the signal strength and volume

The **GAIN-LED** on the TRX base station indicates the signal strength of a Portable unit.

Display	Explanation
LEDs display green continuously	Optimal sensitivity
LED yellow	Shortly before clipping
LED red Clipping	Clipping

☑ Muting disabled

▶ If necessary, press the **MUTE button** on the audio channel of the TRX base station and the **Mute button** on the Portable unit to enable the sending/receiving of audio signals.
▶ Playback an audio signal on the audio source.
▶ Look to see that the base station TRX-**GAIN-LED** channel is connected to the audio source of the Portable unit
▶ Press the **GAIN-up** or **GAIN-down button** until the **GAIN** green **LED** lights up evenly.
▶ Adjust the high volume at the output device which is connected to the RX Portable unit.
  • Listen to the audio signal with increasing volume.

Is any audio signal audible?
▶ Check the connection of the audio source, the TX Portable unit and TRX base station.
▶ Check the connection of the output device, the RX Portable unit and TRX base station.
▶ Check the charging state of the batteries/rechargeable batteries in the Portable units.
▶ Make sure that channel TX and RX channels are properly connected to the TRX base station safely.

Change a Peripheral on a Portable unit

- ▶ **Turn** the TX/RX Portable unit or the associated audio channel at the TRX base station to **silent** (▶ See: „muting“, page 18).
- ▶ Adjust the volume of the peripheral device to zero and turn off the peripheral device.
- ▶ Unplug the XLR cable.
- ▶ Connect the replacement peripheral device and turn it on (▶ „Connecting peripherals“ on page 8).

Muting

During operation, you can mute depending on the application, individual peripherals or audio channels.

Audio channel mute

- ▶ Press the **MUTE-button** on the desired audio channel of the TRX base station.
  - The **MUTE-LED** is lit. The audio channel is muted.
  - The audio signals from **all** connected to the audio channel peripherals are not transferred.

Individually muting a peripheral device

- ▶ Press the **Mute button** on the Portable unit.
  - The **Mute-LED** lights. The TX/RX Portable unit with the connected peripheral device is muted.
  - The audio signals of the peripheral device are not transmitted.

Peripheral(s) active switch

- ▶ Press the **MUTE-button** (on the TRX base station) or **Mute-button** (on the Portable unit) again.
  - The **MUTE LED** and **Mute LED** goes out.
  - The peripheral device or the audio channel are activated again.
  - The audio signals are transmitted.

Turn off the system

Turning off theTRX base station

☑ Peripherals are switched off

- ▶ Press the **On/Off button** for 3 seconds.
  - The **MUTE-LED** flashes. The unit turns off.
  - The **MUTE-LED** goes out. The **Power LED** turns off. The power is off.

Switch off the Portable unit

when using battery/rechargeable batteries

- ▶ Press the **On/Off button** on the TX/RX Portable unit.
  - The **Link-LED** and **TX-Link-LED** will go out. The power is off.

For operation with AC power supply adapter

- ▶ Unplug the mini USB plug of the AC adapter from the TX/RX Portable unit.
  - The **Link-LED** and **TX-Link-LED** will go out. The power is off.

G Operation on the computer

You can simulate the functions of theTRX base station with the **XIRIUM Configurator** software on a computer.
The software produces an image of the front of the TRX base station.
The software is available for free download from the Neutrik website:

- www.neutrikcom/en/audio/xirium/nx4trx

Install XIRIUM Configurator

▶ Notes for the installation of the software on your computer and hardware and operating system requirements.

System

☑ Computer with Microsoft Windows XP / Windows 7 / Windows 8
☑ Computer with a network connection RJ45

Software download

▶ Download the zip file **XIRIUM Configurator Setup** from the download site and save it on your computer.

Install

▶ Double-click the setup.exe file.
- The installation proceeds automatically.
- If Microsoft.NET FrameworkTM is not already installed on your computer, a message will appear. If you confirm this, the installation proceeds automatically.
- **XIRIUM Configurator** icon appears on the desktop of the computer:

Connect the TRX base station and computer

Notes to configure the network information on the operating system of your computer. Depending on your operating system version, the names and paths specified here may differ slightly.

Making the first connection to the base station TRX

Change IP Address of the computer (for Windows 7 / Windows 8)

▶ Do **not** use the address ***192.168.1.2***.
This address is used by the base station TRX.

▶ Go to **Control Panel > Network and Internet > Network and Sharing Center > Adapter settings**.
▶ Click with the right mouse button on **LAN connection**.
▶ Select **Properties** and then double-click **Internet Protocol Version 4**.
- The **Properties** window appears.

▶ Select Use the **following IP address**.
▶ Make a note of the address, which is possibly already entered in the **IP Address** field.
▶ Enter the new address ***192.168.1.1***.
▶ In the Subnet mask box, type ***255.255.255.0***.
- The value of y is assigned automatically if not typed in.

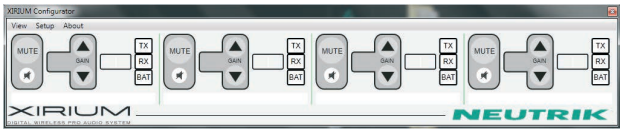
Change IP Address of the computer (Windows XP)

▶ Go to **Control Panel > Network Connections > Local Area Connection > Internet Protocol (TCP/IP)**
▶ Select Use the **following IP address**.
▶ Record the address in the **IP Address** field.
▶ Enter the new address ***192.168.1.1***. X In the Subnet mask box, type ***255.255.255.0***.
- The value of y is assigned automatically if not typed in.

Connect the TRX base station and the computer

- ▶ Plug the Ethernet cable into the **REMOTE** connector of the TRX base station and at the computer into the RJ45 network connection.
  When connecting to an existing network (optional): Connect the Ethernet cable from the TRX base station and the computer to the hub/router.
  - The TRX base station appears in the network connections on the computer as a device.
- ▶ Click on the desktop icon of the software **XIRIUM Configurator**.
  - The main window will appear indicating that the **XIRIUM Configurator** is trying to connect with the TRX base station.

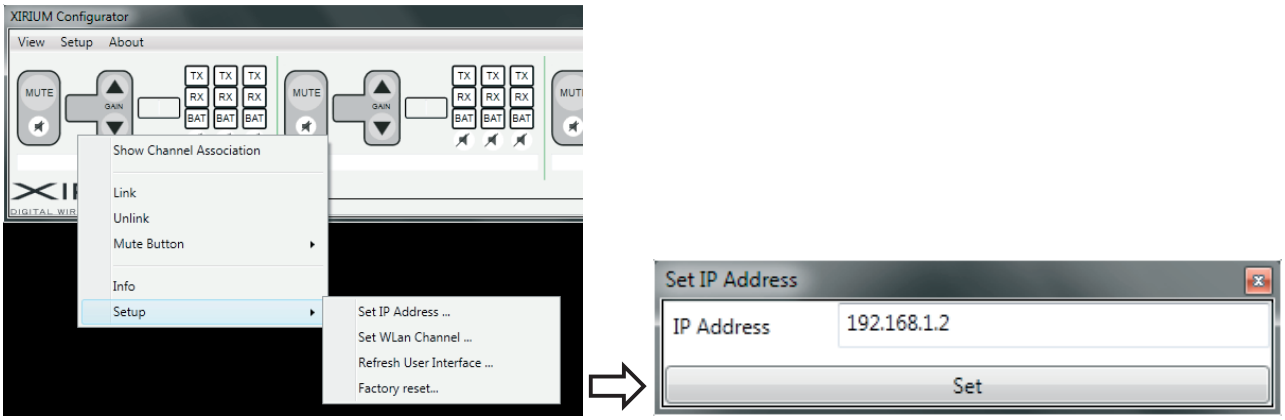
  - After a short time, the TRX base station appears:



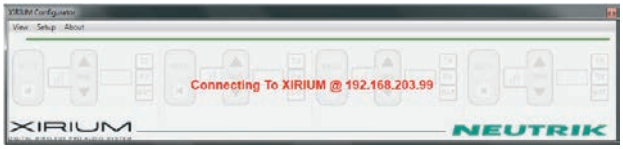
Adapt IP Addresses

If the TRX base station and your computer (e.g. a laptop) is already using an existing network, you must set again the IP address of the TRX base station to the IP subnet of your network and the original IP address of your computer (that you changed when you first connected to ***192.168.1.1***).

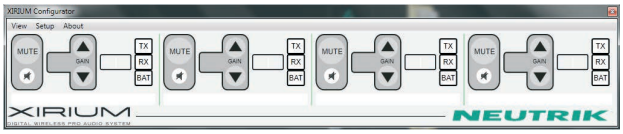
- ▶ Clicking the right mouse button opens up a pop-up menu.
- ▶ Go to the context menu **Setup > Set IP Address**.
  - The **Set IP Address** window appears:



- ▶ Enter the desired IP address of the TRX base station (to match your IP subnet) and press the **Set** button.
  - The main window appears and indicates that **XIRIUM Configurator** is trying to connect to the IP address of the TRX base station.



- ▶ Set the Control Panel of your computer with the **Adapter settings** and the **LAN connection** respectively, with the originating IP address of your computer on the network (▶ See „Establishing the first connection to the TRX base station on page 19).
  - After a short time, the TRX base station appears:



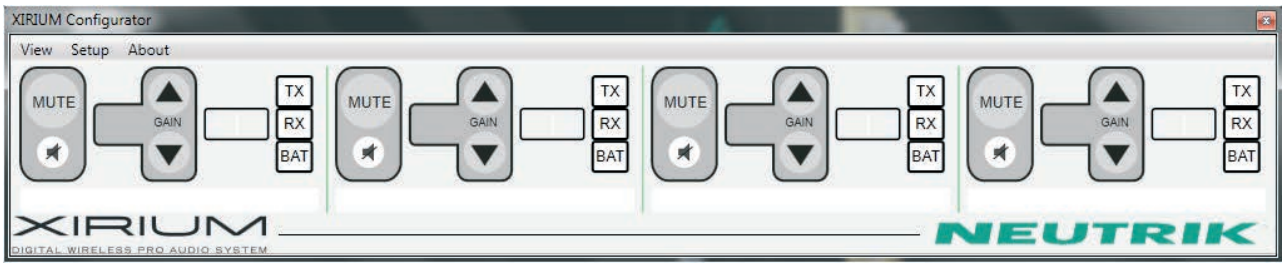
Use the XIRIUM Configurator

Operating the base station on the TRX **XIRIUM Configurator** runs in the same way as on the TRX base station.

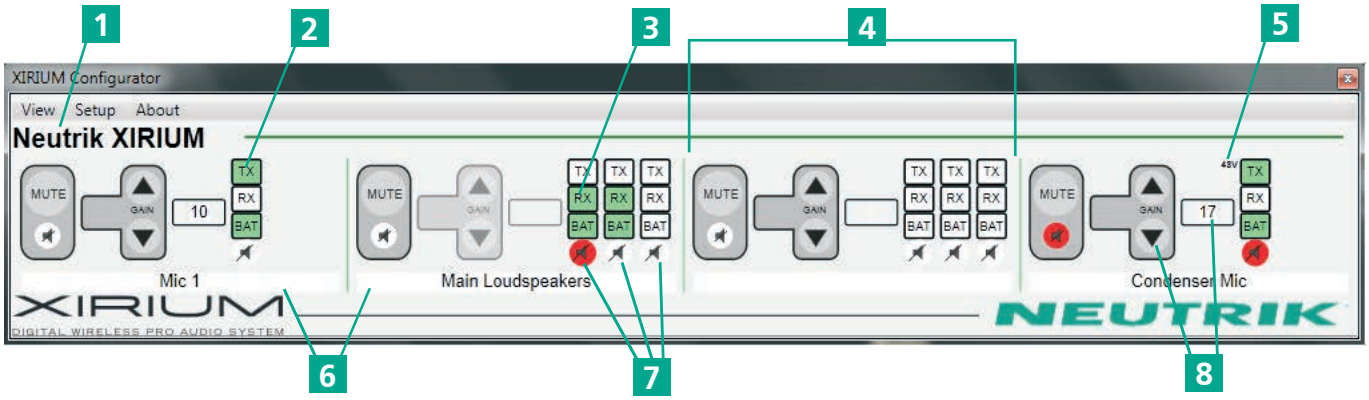
Starting the Software

▶ Click on the desktop icon of the software **XIRIUM Configurator**:

• The main window appears with the TRX base station.



Structure of the software



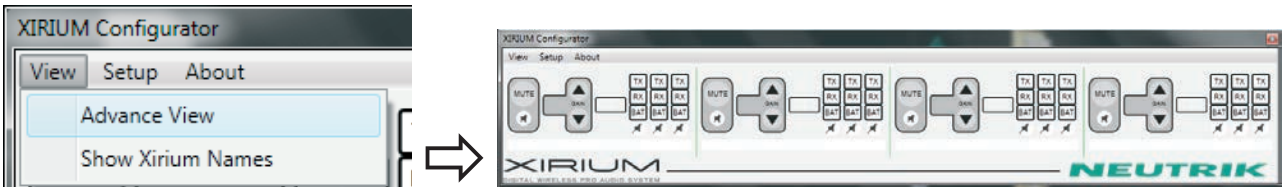
No.	Explanation
1	Name of the TRX base station
2	Indicates connected TX Portable unit (light on)
3	Associated RX Portable unit (indicator lights on)
4	Area for 1 Audio channel
5	Displays 48 V when (if) the input to the TX Portable unit is set to Phantom/HI-Z
6	Field for entering the channel name on the peripheral device
7	MUTE buttons for each individual RX Portable unit
8	GAIN, adjustable in 1 dB steps

Menu bar

Menu/Submenu	Explanation
View	View Menu
Advanced View	Switch to Advanced View
Show XIRIUM Names	Display name of the TRX base station
Setup	Add to TRX base station
About	Shows information about the software

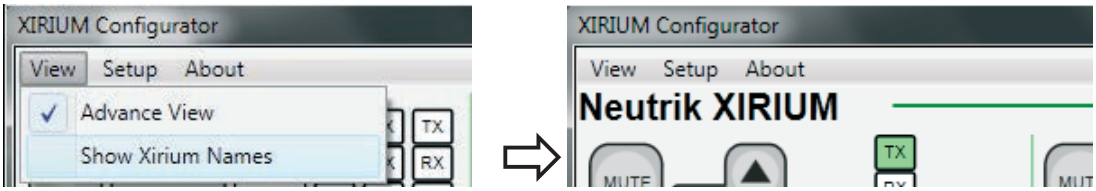
Access the Advanced View

▶ Click **View** in the Menu bar, then click **Advanced View**.
- The view of the main window changes from simple to advanced view.



View the name of the TRX base station

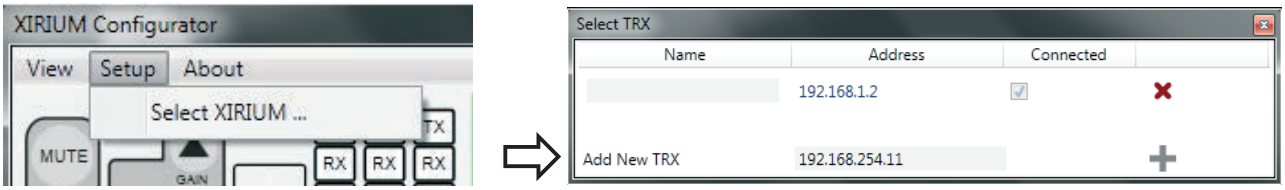
▶ Click **View** in the Menu bar and then click **Show XIRIUM Names**.
- The name of the TRX base station appears in the main window.



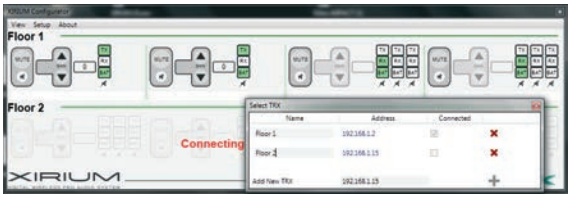
- You can change the name of the TRX base station.

Add/Delete a TRX base station

▶ Click on the menu bar, click **Setup** and **select XIRIUM**.
- The **Select TRX** window appears.



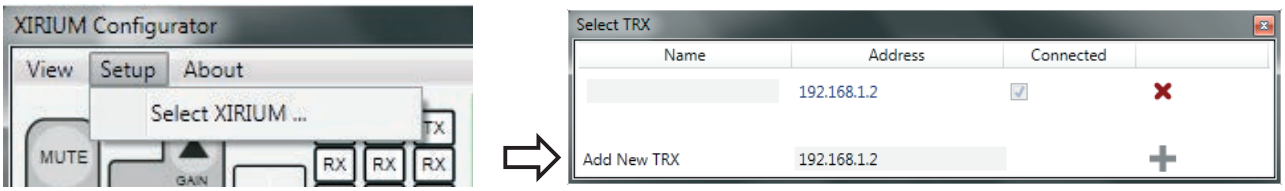
▶ In the **Add New TRX**, type the IP address of the other TRX base station.
▶ Click **+**.
- The XIRIUM TRX base station is added to the network.
- Existing base stations in the network appear in the list.
- The **XIRIUM Configurator** will connect to the TRX base station.



▶ To remove a TRX base station from the XIRIUM network, click **x**.
- The TRX base station is deleted.

Change the Name of the TRX base station

▶ Click on the Menu bar, click **Setup** and **select XIRIUM**.
- The **Select TRX** window appears.



- In the **Address** column the IP address of the selected TRX base station is displayed.

▶ In the **Name** box, type the name of the TRX base station.

— **View the software version**

▶ Click on the Menu bar, click **About**.

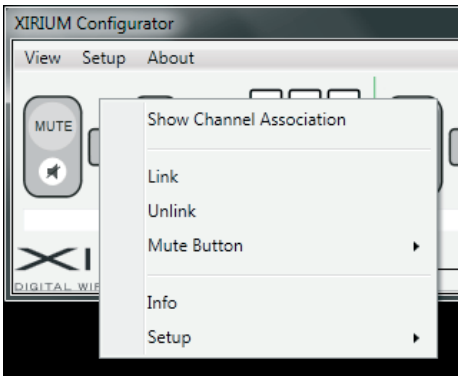
• The **XIRIUM Configurator** window appears indicating the software version.

Context Menu

In the Context Menu you can access the following functions for each channel:

▶ Click on an audio channel area on the right mouse button.

• The context menu appears.

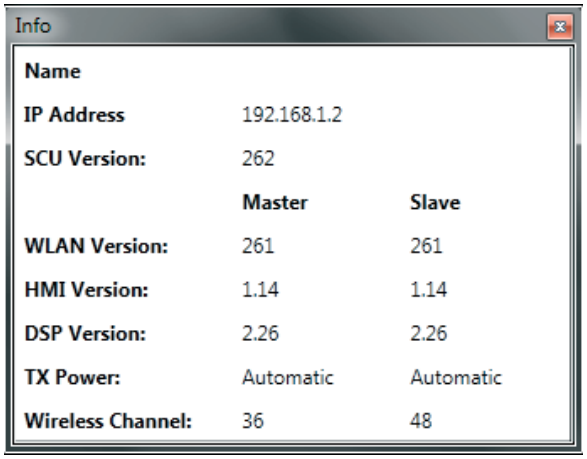


Menu	Explanation
Show Channel Association	Show the TX/RX Portable unit(s) associated with this channel(s) (equivalent to the LINK button on the TRX base station)
Link	Connect the TX/RX Portable unit with a channel
Unlink	Disconnect the TX/RX Portable unit from a channel
Mute button ▶	To Lock/Unlock the TXRX Portable unit MUTE button
Lock	Lock the MUTE button
Release lock	Unlock the MUTE button
Info	To view information about the XIRIUM network and TRX base station
Setup ▶	View/Edit System Preferences
Set IP Address	Change the IP address of the TRX base station
Set WLAN Channel	Change the WLAN-channel
Refresh User Interface	Display the main window of the updated software
Factory reset	Reset to factory settings (including IP address)

Configure the connection and display the TRX base stations

View Information for TRX base station

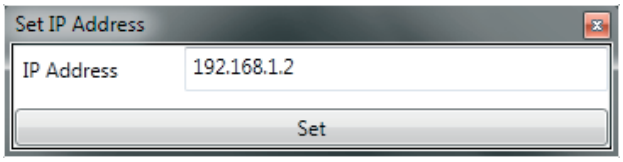
▶ Select the context menu and go to **Setup > Info**.
- The **Info** window appears.



Menu	Explanation
Name	XIRIUM Network name
IP Address	IP address of the displayed TRX base station
SCU Version	Firmware versions of the TRX base station
WLAN Version	
HMI Version	
DSP Version	
TX Power	
Wireless Channel	Current wireless channel

Change the IP address of the TRX base station

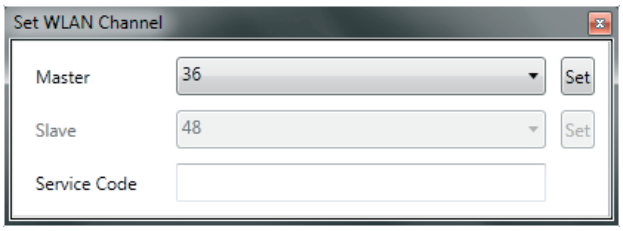
▶ Select the context menu and go to **Setup > Set IP Address**.
- The **Set IP Address** window appears.



▶ Click in the **IP Address** field, enter the IP address and press the **Set Button**.

Change WLAN channel on the TRX base station

▶ Select the context menu and go to **Setup > Set WLAN channel**.
- The **Set WLAN Channel** window appears.



▶ Choose the wireless channel in the **Master** field, and press the **Set button**.

Use the XIRIUM Configurator

▶ Run the operation of the TRX base station using the **XIRIUM Configurator** in the same way as with the **TRX base station**.

Close the software

▶ Click on the **x** in the upper right corner of the main window.
- The software is terminated. The current configuration is saved on the TRX base station.
- The next time the software takes over the current configuration of TRX base station.

Uninstall the software,

▶ Uninstall the software using the Uninstall feature of your operating system.

H After using the XIRIUM equipment

Decommissioning and dismantling

- Switch off all XIRIUM devices and unplug the power cord from the outlet.
- Disconnect any peripherals connected by cable to the XIRIUM devices.
- Remove the batteries/rechargeable batteries in the TX/RX Portable units.
- For the rack mounted the TRX base station:
  - Remove the antennas.
  - Loosen the mounting screws and pull the TRX base station from the rack.

Transport

- Transport the equipment and all accessories in the original packaging.

Storage

- Switch off the XIRIUM equipment and unplug the power cord from the power outlet when you are not using the XIRIUM devices.
- Remove the batteries/rechargeable batteries in the TX and RX Portable units when not in use for extended periods of time.
- Keep the XIRIUM equipment and all accessories in the original packaging.
- Keep the XIRIUM devices in a clean, dry place. Protect the XIRIUM devices from dirt, dust, heat, humidity and moisture.

Care and Cleaning

CAUTION! Damage to the device and its accessories due to improper cleaning!

- Do not allow the equipment or the accessories to be immersed in water.
- Turn off the XIRIUM devices.
- Remove the batteries/rechargeable batteries from the Portable units.
- Disconnect the X-XIRIUM equipment from the power supply.
- Clean the surfaces of the XIRIUM devices, and accessories with a soft damp cloth. Use a little detergent if necessary.
- Make sure that no moisture or liquids enter the interior of the XIRIUM devices.
- Do not use chemical cleaning agents.
- Do not use materials (e.g. wipes with a rough coating) that can scratch the surface.

Maintenance, Repair and Overhaul

The XIRIUM devices contain no parts that you can service or repair yourself.

- Check the XIRIUM devices for visible signs of damage to housings, controls, cables and connectors.
- In the case of visible damage, do not use the XIRIUM devices. Turn off the XIRIUM devices and disconnect from the power supply.
- Replace defective cables and accessories immediately.

Disposal

- Dispose of the XIRIUM devices and accessories according to local regulations.
- Do not dispose of electrical appliances and electrical accessories, such as cables, connectors, batteries/rechargeable batteries and components in household garbage.

- Dispose of the packaging and packaging components according to local regulations.
- Dispose of the components in the device made of plastic, metal and other recyclable materials in accordance with the locally applicable regulations for recycling.

Service

Contact

▶ If you have any questions about the unit contact your Dealer or Neutrik Service.
  • Addresses and contact details can be found at the back of this manual.

Troubleshooting

▶ If you have any questions about the unit contact your Dealer or Neutrik Service.
  • Addresses and contact details can be found at the back of this manual.

Device reset

▶ Press with a pointed object (e.g. pen) the **RESET button** on the TRX base station.
  • The device is reset to factory settings. The last configuration is deleted.

Update Firmware

▶ If you have any questions about Firmware updates contact your dealer or Neutrik Service.
  • Addresses and contact details can be found at the back of this manual.

Declaration of Conformity

The Declaration of Conformity can be downloaded from the Neutrik website.

J Technical Data Sheet

For more information, see the „XIRIUM Technical Information“.

— Equipment

Parameter	Value
TRX base station	
Dimensions	432 x 46 x 237 mm (W x H x D) (without antenna)
Weight	3200 g
TX/RX Portable unit	
Dimensions	138 x 62 x 25 mm (B x H x T) (ohne Antennen-Finne)
Weight TX Portable unit	120 g; with battery/rechargeable batteries 227 g
Weight RX Portable unit	110 g; with battery/rechargeable batteries: 221 g
TX/RX touring Portable unit	
Dimensions	168 x 78 x 41 mm (W x H x D) (without antenna)
Weight	400 g

— Operating conditions

Parameter	Value
TRX base station	
Ambient temperature	max. 50 °C
Operating temperature range	0 °C ... +50 °C
Temperature range during storage / transport	–20 °C ... +80 °C

— Electrical connection

Parameter	Value
TRX base station	
DC Supply voltage	12 V (U_{DC})
Power consumption	610 mA
AC Power supply	110 V … 240 V
TX/RX Portable unit	
DC Supply voltage	5 V (U_{DC})
Power consumption	1 A
Battery operation	4 x 1,2 V (AA)
AC power supply	110 V … 240 V
TX/RX touring Portable unit	
DC Supply voltage	5 V (U_{DC})
Power consumption	1 A
AC Power Supply	110 V … 240 V

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